### PATENT COOPERATION TREATY

REC'D 14 APR 2005

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PCT

From the INTERNATIONAL SEARCHING AUTHORITY

То:			PCT	
see form PCT/ISA/220		WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43 <i>bis.</i> 1)		
		Date of mailing (day/month/year)	see form PCT/ISA/210 (second sheet)	
Applicant's or agent's file reference see form PCT/ISA/220		FOR FURTHER ACTION See paragraph 2 below		
International application No. PCT/JP2005/000629	International filing date (c 13.01.2005	day/month/year)	Priority date (day/month/year) 16.01.2004	
	C) or both national classification (7D275/02, C07D263/32, C	and IPC 007D277/30, C07D	D277/32, C07D277/34, C07D285/08,	
Applicant	ADANIV'I INATES			

This opinion contains indications relating to the following items:

$\boxtimes$	Box No. I	Basis of the opinion
$\boxtimes$	Box No. II	Priority
$\boxtimes$	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
		Lack of unity of Invention
×	Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
$\boxtimes$		Certain documents cited

Box No. VII Certain defects in the international application

☐ Box No. VIII Certain observations on the international application
2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA:



European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465 Authorized Officer

Kollmannsberger, M

Telephone No. +49 89 2399-7364



# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/JP2005/000629

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.—	Bo	x N	o. I Basis of the opinion		
1.	Wi the	th re lan	egard to the <b>language</b> , this opinion has been established on the basis of the international application in guage in which it was filed, unless otherwise indicated under this item.		
		ıaı	is opinion has been established on the basis of a translation from the original language into the following iguage , which is the language of a translation furnished for the purposes of international search order Rules 12.3 and 23.1(b)).		
2.	<ol> <li>With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:</li> </ol>				
	a. 1	type	of material:		
			a sequence listing		
			table(s) related to the sequence listing		
	b. f	orm	at of material:		
			in written format		
			in computer readable form		
	c. t	ime	of filing/furnishing:		
	1		contained in the international application as filed.		
	ı		filed together with the international application in computer readable form.		
	!		furnished subsequently to this Authority for the purposes of search.		
3.		cop	addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto been filed or furnished, the required statements that the information in the subsequent or additional ies is identical to that in the application as filed or does not go beyond the application as filed, as propriate, were furnished.		
4.	Additional comments:				
_	Box	( No	. II Priority		
1.	×	requ	validity of the priority claim has not been considered because the International Searching Authority is not have in its possession a copy of the earlier application whose priority has been claimed or, where uired, a translation of that earlier application. This opinion has nevertheless been established on the umption that the relevant date (Rules 43bis.1 and 64.1) is the claimed priority date.		
2.		nas	s opinion has been established as if no priority had been claimed due to the fact that the priority claim been found invalid (Rules 43 <i>bis</i> .1 and 64.1). Thus for the purposes of this opinion, the international g date indicated above is considered to be the relevant date.		
3.	Add	ition	al observations, if necessary		

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/JP2005/000629

Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
Th ob	e questions whether the claimed vious), or to be industrially appli	inve	ention appears to be novel, to involve an inventive step (to be non have not been examined in respect of:	
$\boxtimes$	claims Nos. 17,18			
be	cause:			
⊠	the said international application, or the said claims Nos. 17,18 relate to the following subject matter which does not require an international preliminary examination (specify):			
	see separate sheet			
	the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):			
	the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.			
	no international search report has been established for the whole application or for said claims Nos.			
	the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:			
	the written form		has not been furnished	
			does not comply with the standard	
	the computer readable form		has not been furnished	
			does not comply with the standard	
	the tables related to the nucleo not comply with the technical re	tide a equire	and/or amino acid sequence listing, if in computer readable form only, do ements provided for in Annex C-bis of the Administrative Instructions.	
	See separate sheet for further of	detail	s	

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/JP2005/000629

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-18

No: Claims

Inventive step (IS)

Yes: Claims

1-18

No: Claims

Industrial applicability (IA)

Yes: Claims

1-16

No: Claims

2. Citations and explanations

see separate sheet

## Box No. VI Certain documents cited

 Certain published documents (Rules 43bis.1 and 70.10) and /or

2. Non-written disclosures (Rules 43bis.1 and 70.9)

see form 210

#### Re Item III

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

Claims 17 and 18 relate to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of these claims (Article 34(4)(a)(I) PCT).

#### Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

#### V-1. State of the art

The following documents have been cited:

- D1: PATENT ABSTRACTS OF JAPAN vol. 1998, no. 06, 30 April 1998 (1998-04-30)
  -& JP 10 029966 A (MITSUBISHI CHEM CORP), 3 February 1998 (1998-02-03)
- D2: WO 02/089579 A (SUMITOMO CHEMICAL COMPANY, LIMITED; OTAKA, KEN; SUZUKI, MASAYA; OOHIRA) 14 November 2002 (2002-11-14)
- D3: PATENT ABSTRACTS OF JAPAN vol. 2003, no. 12, 5 December 2003 (2003-12-05) & JP 2004 099597 A (SUMITOMO CHEM CO LTD), 2 April 2004 (2004-04-02)
- D4: WO 2004/006677 A (SUMITOMO CHEMICAL COMPANY, LIMITED; OTAKA, KEN; OOHIRA, DAISUKE; TAKAO) 22 January 2004 (2004-01-22)

D3 and D4 will be disregarded during the PCT procedure as they have been published after the priority date of the present application.

## V-2. Novelty (Art. 33(2) PCT):

The claims are novel over the cited documents due to the five-membered heterocycle that is required to have at least two heteroatoms.

## V-3. Inventive Step (Art. 33(3) PCT)

Closest prior art can be seen in D2 that discloses pesticides which differ from the present claims in that they have a benzene ring as the cyclic structure whereas presently five-membered heteroaromatic rings with at least 2 heteroatoms are claimed. The problem to be solved is the provision of further compounds with such an activity. Since neither of D1 or D2 suggest to modify the cyclic ring to a five-membered heteroaromatic with at least two heteroatoms, this problem has been solved in a non-obvious way.

# Re Item VI Certain documents cited

## Certain published documents

Application No	Publication date (day/month/year)	Filing date	Priority date (valid claim)
Patent No		(day/month/year)	(day/month/year)
WO2004/006677	22.02.2004	07.07.2003	17.07.2002
JP2004099597	02.04.2004	16.07.2003	